

**NITRILE HYDRATASE GENE AND AMIDASE GENE WHICH ARE DERIVED FROM PHODOCOCCUS**

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**Abstract of JP2001069978**

**PROBLEM TO BE SOLVED:** To obtain a new nitrile hydratase gene which is derived from rhodococcus, contains a DNA sequence coding for a specific amino acid sequence, and is useful for producing the enzyme having position selectivity to an aromatic polynitrile, etc. **SOLUTION:** This is a new nitrile hydratase gene which is derived from rhodococcus, contains a DNA sequence coding for the amino acid sequence shown by the formula, or a DNA sequence coding for an amino acid sequence modified by deleting, substituting, or adding one amino acid or more from, in, or to the amino acid sequence, and is useful for producing the enzyme which has especially excellent position selectivity to an aromatic polynitrile and allows producing an amide compound and carboxylic acid compound useful as raw materials for medicines and agrochemicals from a nitrile compound, etc. This gene is obtained by preparing a library from chromosomal DNA of Rhodococcus rhodochrous ATCC 39484, followed by carrying out PCR using it as a template and using primers.

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